

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD TO REDUCE TORQUE RELATED AUDIBLE NOISE FOR SPINDLE MOTOR, the specification of which:

(check one) is attached hereto.
 was filed on November 23, 1998 as
 Application Serial No. 09/198,047
 and was amended on _____
 (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>09/158,641</u> (Application Serial No.)	<u>September 22, 1998</u> (Filing Date)	<u>Abandoned</u> (Status) (patented, pending, abandoned)
<u>08/893,626</u> (Application Serial No.)	<u>July 11, 1997</u> (Filing Date)	<u>Abandoned</u> (Status) (patented, pending, abandoned)
<u> </u> (Application Serial No.)	<u> </u> (Filing Date)	<u> </u> (Status) (patented, pending, abandoned)

Direct all telephone calls to James A. Sheridan at (415) 781-1989.

Address all correspondence to:

FLEHR HOHBACH TEST
ALBRITTON & HERBERT LLP
Suite 3400, Four Embarcadero Center
San Francisco, California 94111

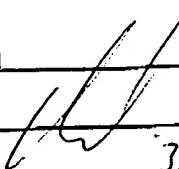
File No. A-59709-2/JAS

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor

Donald J. MacLeod

Inventor's signature:


3/19/99

Date:

Residence:

Santa Cruz, California

Citizenship:

United Kingdom

Post Office Address:

158 Waugh Avenue

Santa Cruz, California 95065

Full name of second inventor

Greg Zariphopoulos

Inventor's signature:



Date:



Residence:

Redwood City, California

Citizenship:

Greece

Post Office Address:

463 Jeter Street

Redwood City, California

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD TO REDUCE TORQUE RELATED AUDIBLE NOISE FOR SPINDLE MOTOR, the specification of which:

(check one) is attached hereto.
 was filed on November 23, 1998 as
Application Serial No. 09/198,047
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>09/158,641</u> (Application Serial No.)	<u>September 22, 1998</u> (Filing Date)	<u>Abandoned</u> (Status) (patented, pending, abandoned)
<u>08/893,626</u> (Application Serial No.)	<u>July 11, 1997</u> (Filing Date)	<u>Abandoned</u> (Status) (patented, pending, abandoned)
<u> </u> (Application Serial No.)	<u> </u> (Filing Date)	<u> </u> (Status) (patented, pending, abandoned)

Direct all telephone calls to James J. Sheridan at (415) 781-1989.
Address all correspondence to:

FLEHR HOHBACH TEST
ALBRITTON & HERBERT LLP
Suite 3400, Four Embarcadero Center
San Francisco, California 94111

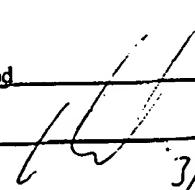
File No. A-59709-2/JAS

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor

Donald J. MacLeod

Inventor's signature:


3/19/99,

Date:

Residence:

Santa Cruz, California

Citizenship:

United Kingdom

Post Office Address:

158 Waugh Avenue

Santa Cruz, California 95065

Full name of second inventor

Greg Zariphopoulos

Inventor's signature:



Date:



Residence:

Redwood City, California

Citizenship:

Greece

Post Office Address:

463 Jeter Street

Redwood City, California

Full name of third inventor

Robert M. Peistring

Inventor's signature:



Date:

3/19/99

Residence:

Santa Cruz, California

Citizenship:

U.S.A.

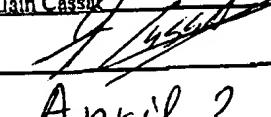
Post Office Address:

127 De La Costa Avenue

Santa Cruz, California 95060

Full name of fourth inventor

Alain Cassar



April 2, 1999

Inventor's signature:

Date:

Pully, Switzerland

Residence:

Switzerland

Citizenship:

Fontanettaz 13

Post Office Address:

1009 Pully, Switzerland

Full name of fifth inventor

Gunter Kari Heine

Inventor's signature:



Date:



Residence:

Aptos, California

Citizenship:

Germany

Post Office Address:

143 Driftwood Court

Aptos, California 95003

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD TO REDUCE TORQUE RELATED AUDIBLE NOISE FOR SPINDLE MOTOR, the specification of which:

(check one) is attached hereto.
 was filed on November 23, 1998 as
Application Serial No. 09/198,047
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year Filed)</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year Filed)</u>	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>09/158,641</u> (Application Serial No.)	<u>September 22, 1998</u> (Filing Date)	<u>Abandoned</u> (Status) (patented, pending, abandoned)
<u>08/893,626</u> (Application Serial No.)	<u>July 11, 1997</u> (Filing Date)	<u>Abandoned</u> (Status) (patented, pending, abandoned)
<u> </u> (Application Serial No.)	<u> </u> (Filing Date)	<u> </u> (Status) (patented, pending, abandoned)

Direct all telephone calls to James A. Sheridan at (415) 781-1989.

Address all correspondence to:

FLEHR HOHBACH TEST
ALBRITTON & HERBERT LLP
Suite 3400, Four Embarcadero Center
San Francisco, California 94111

File No. A-59709-2/JAS

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor Donald J. MacLeod

Inventor's signature: 

Date: 

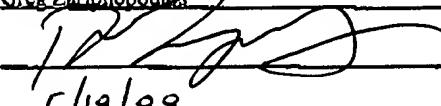
Residence: Santa Cruz, California

Citizenship: United Kingdom

Post Office Address: 158 Waugh Avenue

Santa Cruz, California 95065

Full name of second inventor Greg Zariphopoulos



5/19/99

Date: 

Residence: Evanston, Illinois

Citizenship: Greece

Post Office Address: 1725 Orrington Avenue, Apt. #730-2

Evanston, Illinois 60201

Full name of third inventor Robert M. Peistrig

Inventor's signature: _____

Date: _____

Residence: Santa Cruz, California

Citizenship: U.S.A.

Post Office Address: 127 De La Costa Avenue

Santa Cruz, California 95060

Full name of fourth inventor Alain Cassat

Inventor's signature: _____

Date: _____

Residence: Pully, Switzerland

Citizenship: Switzerland

Post Office Address: Fontanetaz 13

1009 Pully, Switzerland

Full name of fifth inventor Gunter Karl Heine

Inventor's signature: _____

Date: _____

Residence: Aptos, California

Citizenship: Germany

Post Office Address: 143 Driftwood Court

Aptos, California 95003

A-59709-2 JAS



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231**

OCTOBER 21, 1999

PTAS

FLEHR HOHBACH TEST ALBRITTON & HERBERT
JAMES A. SHERIDAN
FOUR EMBARCADERO CENTER, SUITE 3400
SAN FRANCISCO, CA 94111-4187



101124915A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

JJC857 U.S. PTO
09/631438

08/02/00

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/19/1999

REEL/FRAME: 010176/0451
NUMBER OF PAGES: 9

ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MACLEOD DONALD J

DOC. DATE: 03/19/1999

ASSIGNOR:
BELSTRING ROBERT M

DOC. DATE: 03/19/1999

ASSIGNOR:
CASSAT ALAIN

DOC. DATE: 04/02/1999

ASSIGNOR:
HEINE GUNTER K

DOC. DATE: 03/29/1999

ASSIGNEE:
SEAGATE TECHNOLOGY, INC.
920 DISC DRIVE
SCOTTS VALLEY, CALIFORNIA 95066

FILING DATE: 11/23/1998
ISSUE DATE:

SEDLEY PYNE, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

08-24-1999

IRM PTO-1595

MFD

8-19-99



101124915

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

HEET

Attorney Docket No. A-59709-2/JAS

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying parties:

Donald J. MacLeod; Robert M. Pelstring; Alain Cassat;
Gunter K. HeineAdditional name(s) of conveying party(ies) attached? [] Yes [X] No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other: _____

Execution Date: 03/19/99; 03/29/99; 04/2/99

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/198,047 filed 11/23/98

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Sheridan

Address: Elehr Hohbach Test Albritton & Herbert LLP

Four Embarcadero Center, Suite 3400

San Francisco, CA 94111-4187

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

 Enclosed Authorized to be charged to deposit account, if necessary

8. Deposit account number:

06-1300 (Order No. A-59709-2/JAS)

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

R. Michael Ananian, Reg. No. 35,050
Name of Person Signing

Signature

August 16, 1999

Date

Total number of pages including cover sheet: 11

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

08/23/1999 MTHAI1 00000232 09190047

40.00 OP

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, Pk2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.

01 FC 581

Docket No. A-59709-2/JAS

ASSIGNMENT

WHEREAS we, DONALD J. MACLEOD, residing at 158 Waugh Avenue, Santa Cruz, California 95065; GREG ZARIPHOPOULOS, residing at 463 Jeter Street, Redwood City, California; ROBERT M. PELSTRING, residing at 127 De La Costa Avenue, Santa Cruz, California 95060; ALAIN CASSAT, residing at Fontanettaz 13, 1009 Pully, Switzerland; GUNTER KARL HEINE, residing at 143 Driftwood Court, Aptos, California 95003, invented certain new and useful improvements in *METHOD TO REDUCE TORQUE RELATED AUDIBLE NOISE FOR SPINDLE MOTOR*, for which invention we have executed an application for Letters Patent of the United States.

Whereas, Seagate Technology, Inc. a corporation of the State of Delaware, having a place of business at 920 Disc Drive, Scotts Valley, CA 95066, State of California, (hereinafter referred to as assignee) is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the Letters Patent to be obtained therefor;

Now, therefore, for and in consideration of One Dollar and other good and valuable considerations, to me in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I have sold, assigned, and set over and by these presents do hereby sell, assign, and set over unto the said Seagate Technology, Inc. and said assignee's legal representatives, successors and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both foreign and domestic, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee agreeably with the terms of this assignment.

I hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of our said application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

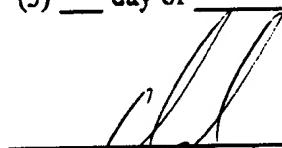
Upon said consideration, I convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of the said United States application (or other application if any there be) in priority to other applications; and I do hereby covenant and agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional renewal, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in

enforcing any rights or chose in action accruing as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee this

(1) 1st day of March, 1999
 (2) day of , 1999
 (3) day of , 1999

(4) day of , 1999
 (5) day of , 1999



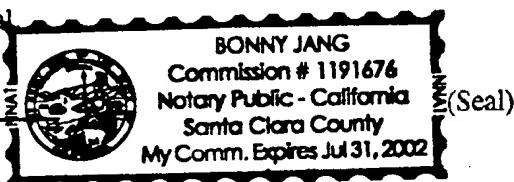
Donald L. MacLeod

State of California)
)
) ss.
County of Santa Cruz)

On this 19th day of March, in the year 1999, before me, Bonny Jang, Notary Public of the State of California in the County of Santa Clara, personally appeared Donald L. MacLeod, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Signature Bonny Jang



Greg Zariphopoulos

State of California)
)
) ss.
County of)

On this day of , in the year 1999, before me, , Notary Public of the State of California in the County of , personally appeared Greg Zariphopoulos, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed

the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

(Seal)

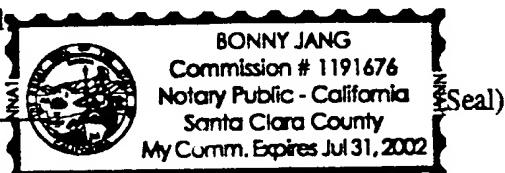
Robert M. Pelstring

State of California)
County of Santa Cruz) ss.

On this 19th day of March, in the year 1999, before me, Bonny Jang, Notary Public of the State of California in the County of Santa Clara, personally appeared Robert M. Pelstring, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal,

Signature Jerry Jane



Alain Cassat

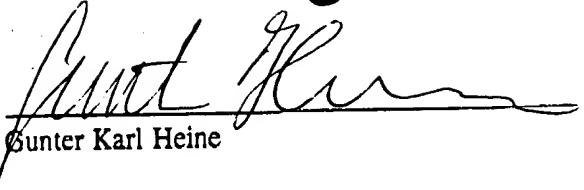
)
) SS.
)

On this _____ day of _____, in the year 1999, before me, _____.
Notary Public of _____ personally appeared
Alain Cassat, personally known to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within instrument, and acknowledged that he/she executed
the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person,
or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

(Seal)


Gunter Karl Heine

State of California)
) ss.
County of Santa Cruz)

On this 24th day of March, in the year 1999, before me, Demetrios Mavrikis, Notary Public of the State of California in the County of Santa Cruz, personally appeared Gunter Karl Heine, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Demetrios N. Mavrikis

(Seal)



ASSIGNMENT

WHEREAS we, DONALD J. MACLEOD, residing at 158 Waugh Avenue, Santa Cruz, California 95065; GREG ZARIPHOPOULOS, residing at 463 Jeter Street, Redwood City, California; ROBERT M. PELSTRING, residing at 127 De La Costa Avenue, Santa Cruz, California 95060; ALAIN CASSAT, residing at Fontanettaz 13, 1009 Pully, Switzerland; GUNTER KARL HEINE, residing at 143 Driftwood Court, Aptos, California 95003, invented certain new and useful improvements in **METHOD TO REDUCE TORQUE RELATED AUDIBLE NOISE FOR SPINDLE MOTOR**, for which invention we have executed an application for Letters Patent of the United States.

Whereas, Seagate Technology, Inc. a corporation of the State of Delaware, having a place of business at 920 Disc Drive, Scotts Valley, CA 95066, State of California, (hereinafter referred to as assignee) is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the Letters Patent to be obtained therefor;

Now, therefore, for and in consideration of One Dollar and other good and valuable considerations, to me in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I have sold, assigned, and set over and by these presents do hereby sell, assign, and set over unto the said Seagate Technology, Inc. and said assignee's legal representatives, successors and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both foreign and domestic, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee agreeably with the terms of this assignment.

I hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of our said application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

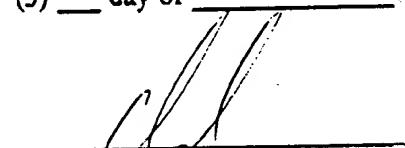
Upon said consideration, I convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of the said United States application (or other application if any there be) in priority to other applications; and I do hereby covenant and agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional renewal, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in

enforcing any rights or chose in action accruing as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee this

(1) 1st day of March, 1999
(2) day of , 1999
(3) day of , 1999

(4) day of , 1999
(5) day of , 1999

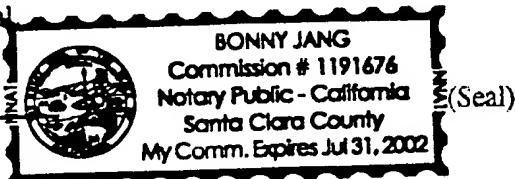

Donald G. MacLeod

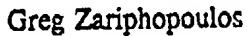
State of California)
) ss.
County of Santa Cruz)

On this 19th day of March, in the year 1999, before me, Bonny Jang, Notary Public of the State of California in the County of Santa Clara, personally appeared Donald L. MacLeod, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Signature Bonny Jang




Greg Zariphopoulos

State of California)
) ss.
County of)

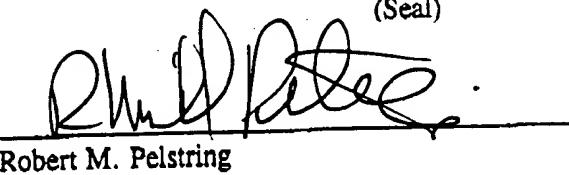
On this day of , in the year 1999, before me, , Notary Public of the State of California in the County of , personally appeared Greg Zariphopoulos, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed

the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

(Seal)



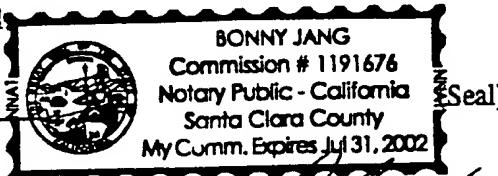
Robert M. Pelstring

State of California)
)
) ss.
County of Santa Cruz)

On this 19th day of March, in the year 1999, before me, Bonny Jang, Notary Public of the State of California in the County of Santa Clara, personally appeared Robert M. Pelstring, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Jerry Dean



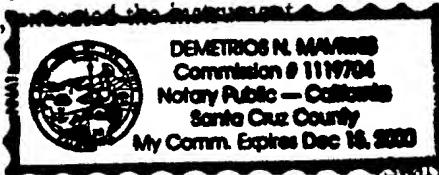
Alain Cassat

State of California)
)
) ss.
County of Santa Cruz)

On this 2nd day of April, in the year 1999, before me, Demetrios N. Mavrikis, Notary Public of the State of California in the County of Santa Cruz, personally appeared Alain Cassat, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Demetrios N. Mavrikis



Gunter Karl Heine

State of California)
)
) ss.
County of _____)

On this ___ day of _____, in the year 1999, before me, _____,
Notary Public of the State of California in the County of _____, personally appeared Gunter
Karl Heine, personally known to me (or proved to me on the basis of satisfactory evidence) to be the
person whose name is subscribed to the within instrument, and acknowledged that he/she executed the
same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person,
or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

(Seal)

A-59709-2 / JAS



UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER

OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

JULY 29, 1999

PTAS

FLEHR HOHBACH TEST, ET AL.
JAMES A. SHERIDAN
SUITE 3400
FOUR EMBARCADERO CENTER
SAN FRANCISCO, CA 94111-4187



101051113A

JC857 U.S. PTO
09/631438
08/02/00

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/27/1999

REEL/FRAME: 009979/0029
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
ZARIPHOPOULOS, GREG

DOC DATE: 05/19/1999

ASSIGNEE:
SEAGATE TECHNOLOGY, INC.
920 DISC DRIVE
SCOTTS VALLEY, CALIFORNIA 95066

SERIAL NUMBER: 09198047
PATENT NUMBER:

FILING DATE: 11/23/1998
ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

5.27.99

RECORDATION FOR

06-1300-999

DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS

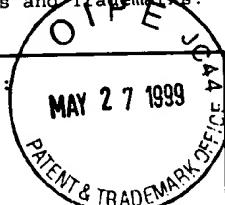


101051113

To the Honorable Commissioner of Patents and Trademarks. P
thereof.

1. Name of conveying party(ies):

GREG ZARIPHOPOULOS

Additional name(s) of conveying
party(ies) attached? Yes No

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: May 19, 1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/198,047 filed 23 November 1998

B. Patent No.(s)

Additional numbers attached? Yes No5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: James A. Sheridan

Internal Address: FLEHR HOHBACH TEST
ALBRITTON & HERBERT LLP

Street Address: SUITE 3400

FOUR EMBARCADERO CENTER

City: SAN FRANCISCO

State: CA Zip: 94111-4187

6. Total number of applications
and patents involved: [1]

7. Total fee (37 CFR 3.41): \$40.00

Enclosed
 Authorized to be charged to
deposit account

8. Deposit account number: 06-1300
Please debit any underpayment or credit any
overpayment to the above deposit account.

Our Order No. A-59709-2/JAS

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct
and any attached copy is a true copy of the original document.

James A. Sheridan

Name of Person Signing

Signature

Total number of pages including cover sheet, attachments and document: [5]

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks, Box Assignments

Washington, DC 20231

File No. A-59709-2/JAS

JC857 U.S. PTO
09/631438
08/02/00

Rev. 8/93 (39811)

Docket No. A-59709-2/JAS

ASSIGNMENT

WHEREAS we, DONALD J. MACLEOD, residing at 158 Waugh Avenue, Santa Cruz, California 95065; GREG ZARIPHOPOULOS, residing at 1725 Orrington Avenue, Apt. #730-2, Evanston, Illinois 60201; ROBERT M. PELSTRING, residing at 127 De La Costa Avenue, Santa Cruz, California 95060; ALAIN CASSAT, residing at Fontanettaz 13, 1009 Pully, Switzerland; GUNTER KARL HEINE, residing at 143 Driftwood Court, Aptos, California 95003, invented certain new and useful improvements in **METHOD TO REDUCE TORQUE RELATED AUDIBLE NOISE FOR SPINDLE MOTOR**, for which invention we have executed an application for Letters Patent of the United States.

Whereas, Seagate Technology, Inc. a corporation of the State of Delaware, having a place of business at 920 Disc Drive, Scotts Valley, CA 95066, State of California, (hereinafter referred to as assignee) is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the Letters Patent to be obtained therefor;

Now, therefore, for and in consideration of One Dollar and other good and valuable considerations, to me in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I have sold, assigned, and set over and by these presents do hereby sell, assign, and set over unto the said Seagate Technology, Inc. and said assignee's legal representatives, successors and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both foreign and domestic, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee agreeably with the terms of this assignment.

I hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of our said application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Upon said consideration, I convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of the said United States application (or other application if any there be) in priority to other applications; and I do hereby covenant and agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional renewal, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in

enforcing any rights or chose in action accruing as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee this

(1) ___ day of _____, 1999
 (2) ___ day of _____, 1999
 (3) ___ day of _____, 1999

(4) ___ day of _____, 1999
 (5) ___ day of _____, 1999

Donald J. MacLeod

State of California)
)
) ss.
 County of _____)

On this ___ day of _____, in the year 1999, before me, _____, Notary Public of the State of California in the County of _____, personally appeared Donald J. MacLeod, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature: _____

(Seal)



Greg Zariphopoulos

ILL.
 State of California)
)
) ss.
 County of COOK)

On this 19 day of MAY, in the year 1999, before me, TOVAT CHRISTY, Notary Public of the State of California in the County of COOK, personally appeared Greg Zariphopoulos, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed

the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature

Jms Clark



Robert M. Pelstring

State of California)
) ss.
County of _____)

On this ____ day of _____, in the year 1999, before me, _____,
Notary Public of the State of California in the County of _____, personally appeared Robert
M. Pelstring, personally known to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within instrument, and acknowledged that he/she executed
the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person,
or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

(Seal)

Alain Cassat

)
)) ss.
)

On this _____ day of _____, in the year 1999, before me, _____,
Notary Public of _____ personally appeared
Alain Cassat, personally known to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within instrument, and acknowledged that he/she executed
the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person,
or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

(Seal)

Gunter Karl Heine

State of California).
) ss.
County of _____)

On this ___ day of _____, in the year 1999, before me, _____,
Notary Public of the State of California in the County of _____, personally appeared Gunter
Karl Heine, personally known to me (or proved to me on the basis of satisfactory evidence) to be the
person whose name is subscribed to the within instrument, and acknowledged that he/she executed the
same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person,
or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

(Seal)